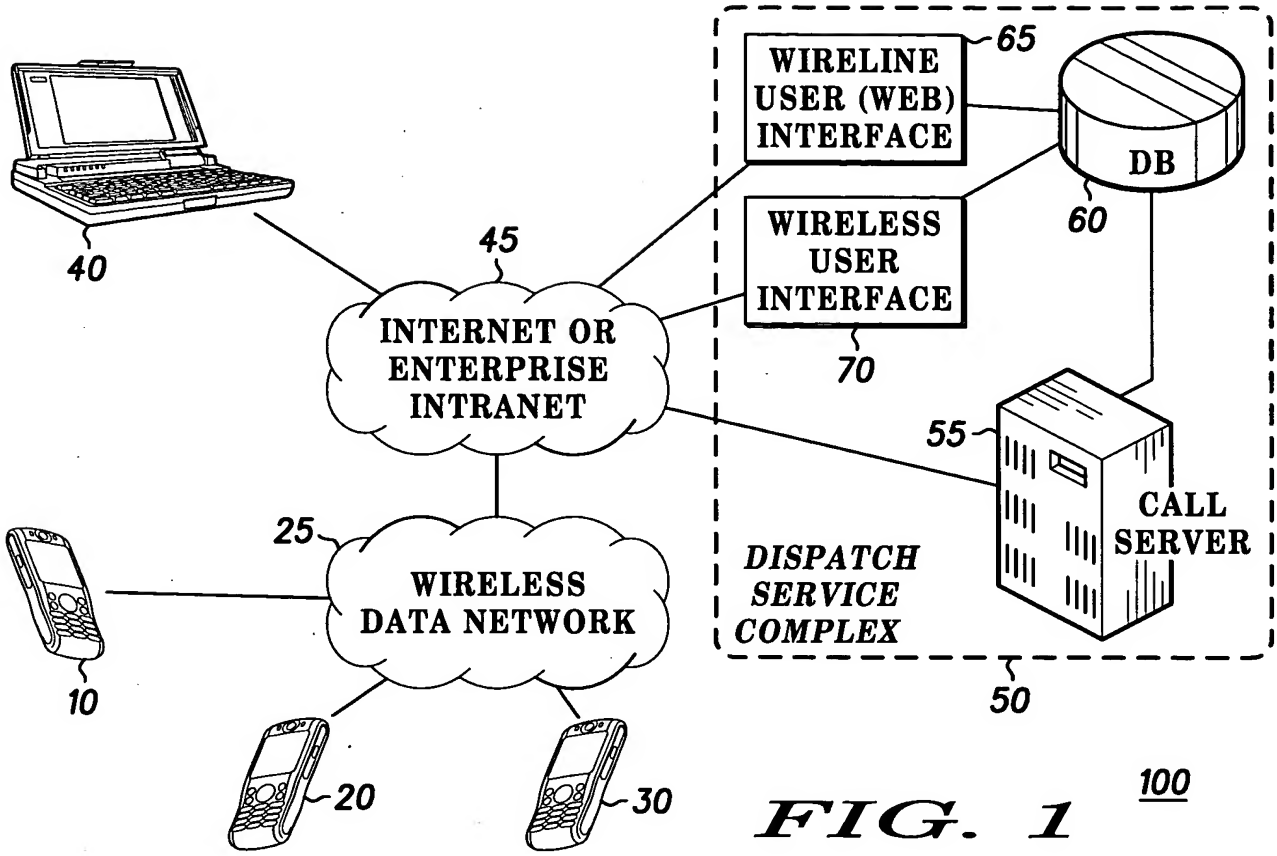

FIG. 1 100

81	84	86	88
1	MEMBER1, , , n	GROUPXX_origURL@serverN_carrier.com	TTL
2	MEMBER1, , , n	GROUPYY_origURL@serverN_carrier.com	TTL
⋮			
n	MEMBER1, , , n	GROUPZZ_origURL@serverN_carrier.com	TTL

82

FIG. 2 80

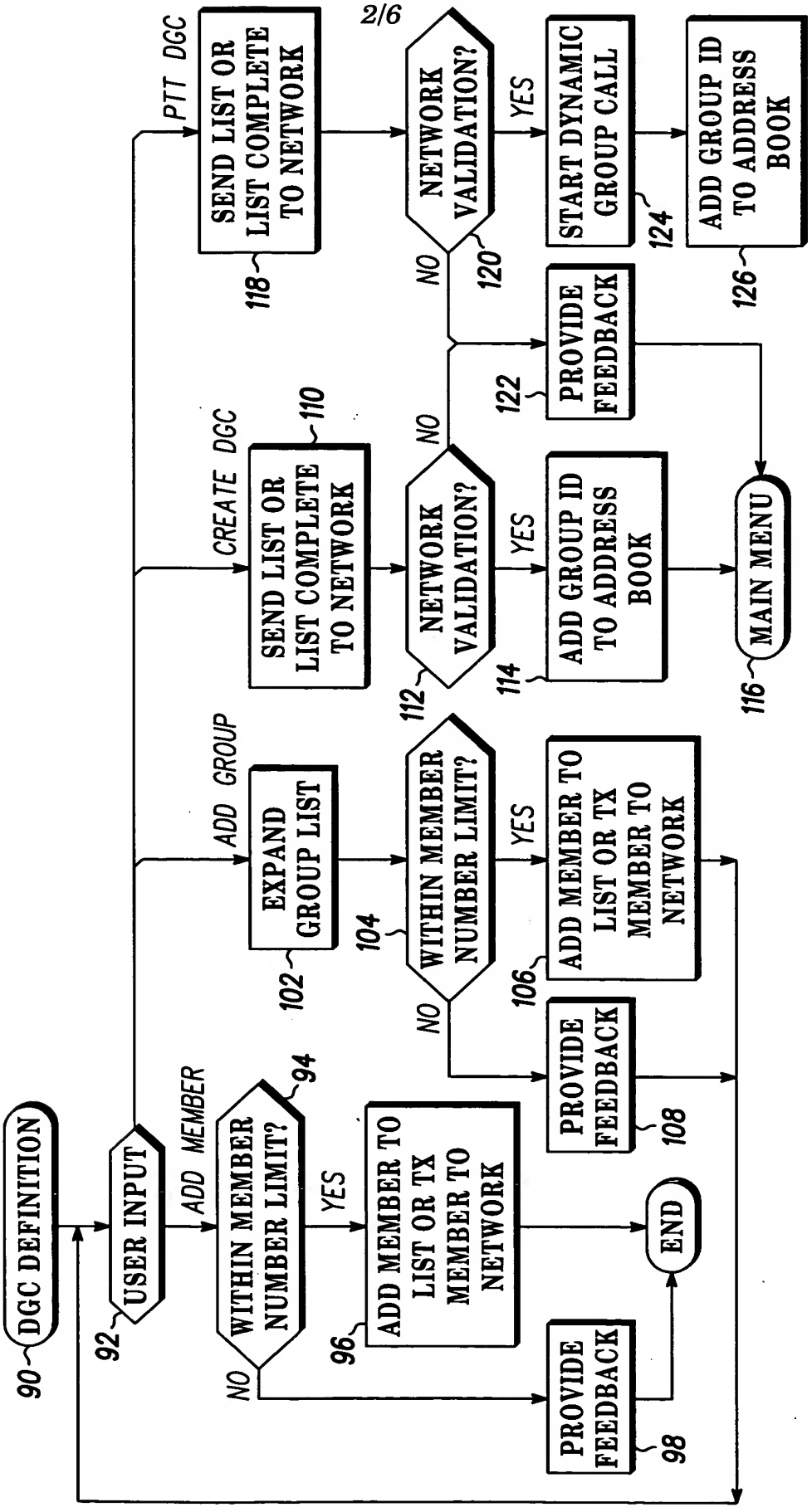
DGC DEFINITION
90
USER INPUT
92
ADD MEMBER
WITHIN MEMBER NUMBER LIMIT?
94
NO
YES
ADD MEMBER TO LIST OR TX MEMBER TO NETWORK
96
PROVIDE FEEDBACK
98
END
ADD GROUP
EXPAND GROUP LIST
102
WITHIN MEMBER NUMBER LIMIT?
104
NO
YES
ADD MEMBER TO LIST OR TX MEMBER TO NETWORK
106
PROVIDE FEEDBACK
108
CREATE DGC
SEND LIST OR LIST COMPLETE TO NETWORK
110
NETWORK VALIDATION?
112
NO
YES
ADD GROUP ID TO ADDRESS BOOK
114
MAIN MENU
116
PTT DGC
SEND LIST OR LIST COMPLETE TO NETWORK
118
NETWORK VALIDATION?
120
NO
YES
PROVIDE FEEDBACK
122
START DYNAMIC GROUP CALL
124
ADD GROUP ID TO ADDRESS BOOK
126

FIG. 3

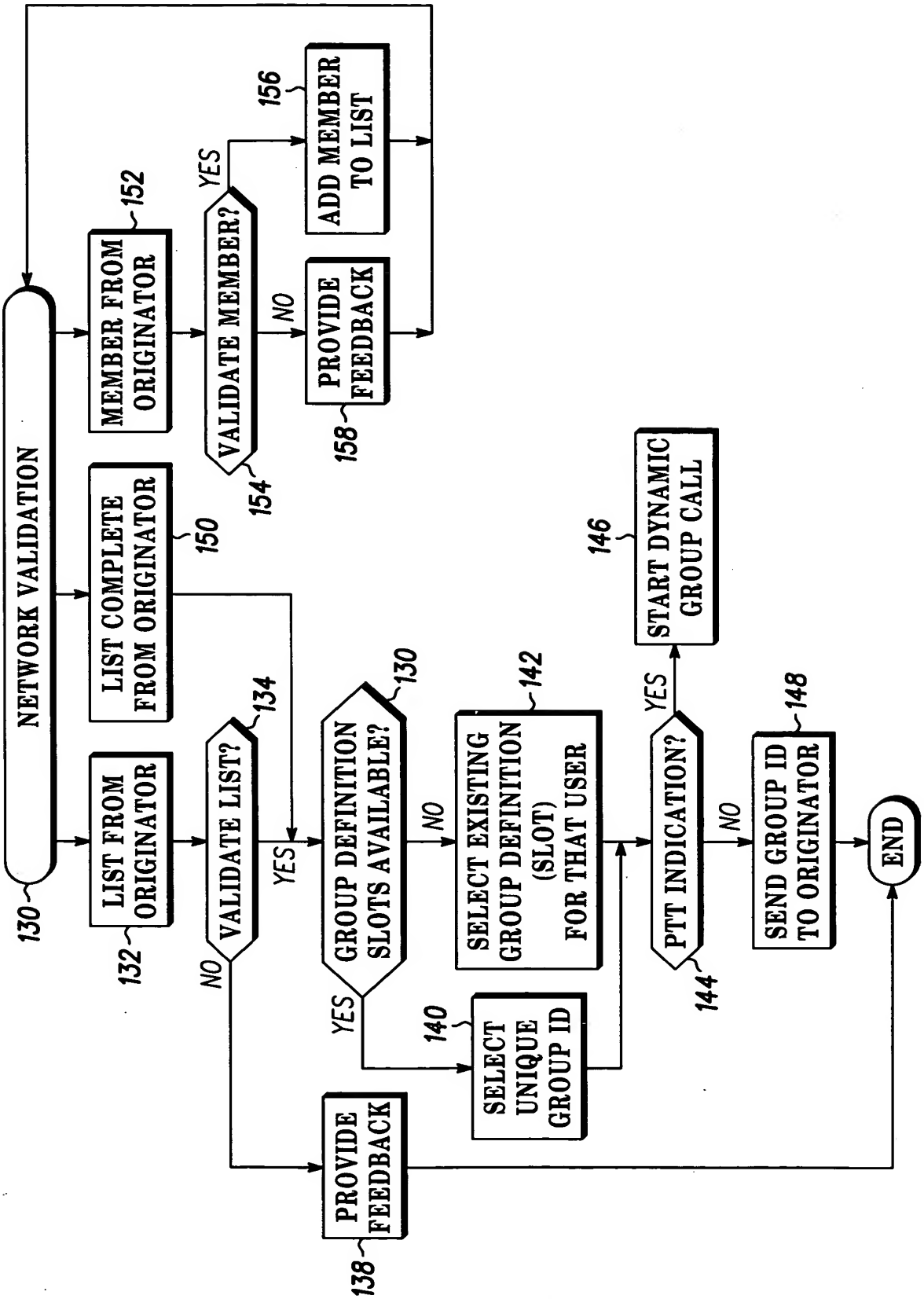
NETWORK VALIDATION
130
LIST FROM ORIGINATOR
132
VALIDATE LIST?
134
NO
YES
PROVIDE FEEDBACK
138
LIST COMPLETE FROM ORIGINATOR
150
MEMBER FROM ORIGINATOR
152
VALIDATE MEMBER?
154
YES
NO
ADD MEMBER TO LIST
156
PROVIDE FEEDBACK
158
GROUP DEFINITION SLOTS AVAILABLE?
130
YES
NO
SELECT UNIQUE GROUP ID
140
SELECT EXISTING GROUP DEFINITION (SLOT) FOR THAT USER
142
START DYNAMIC GROUP CALL
146
PTT INDICATION?
144
YES
NO
SEND GROUP ID TO ORIGINATOR
148
END

FIG. 4

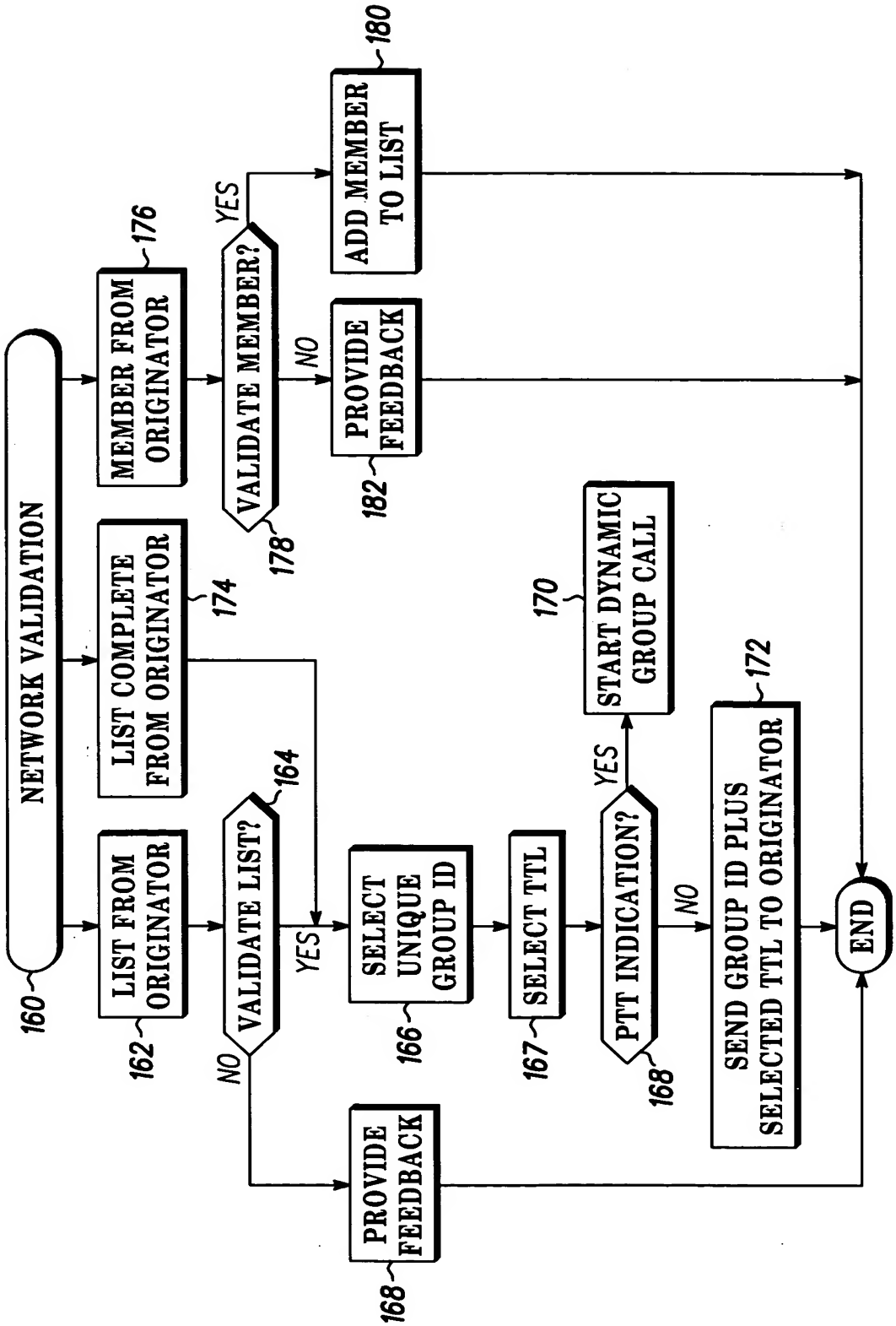
NETWORK VALIDATION
160
LIST FROM ORIGINATOR
162
LIST COMPLETE FROM ORIGINATOR
174
MEMBER FROM ORIGINATOR
176
VALIDATE LIST?
164
NO
YES
VALIDATE MEMBER?
178
YES
NO
ADD MEMBER TO LIST
180
PROVIDE FEEDBACK
182
PROVIDE FEEDBACK
168
SELECT UNIQUE GROUP ID
166
SELECT TTL
167
PTT INDICATION?
168
YES
NO
START DYNAMIC GROUP CALL
170
SEND GROUP ID PLUS SELECTED TTL TO ORIGINATOR
172
END

FIG. 5

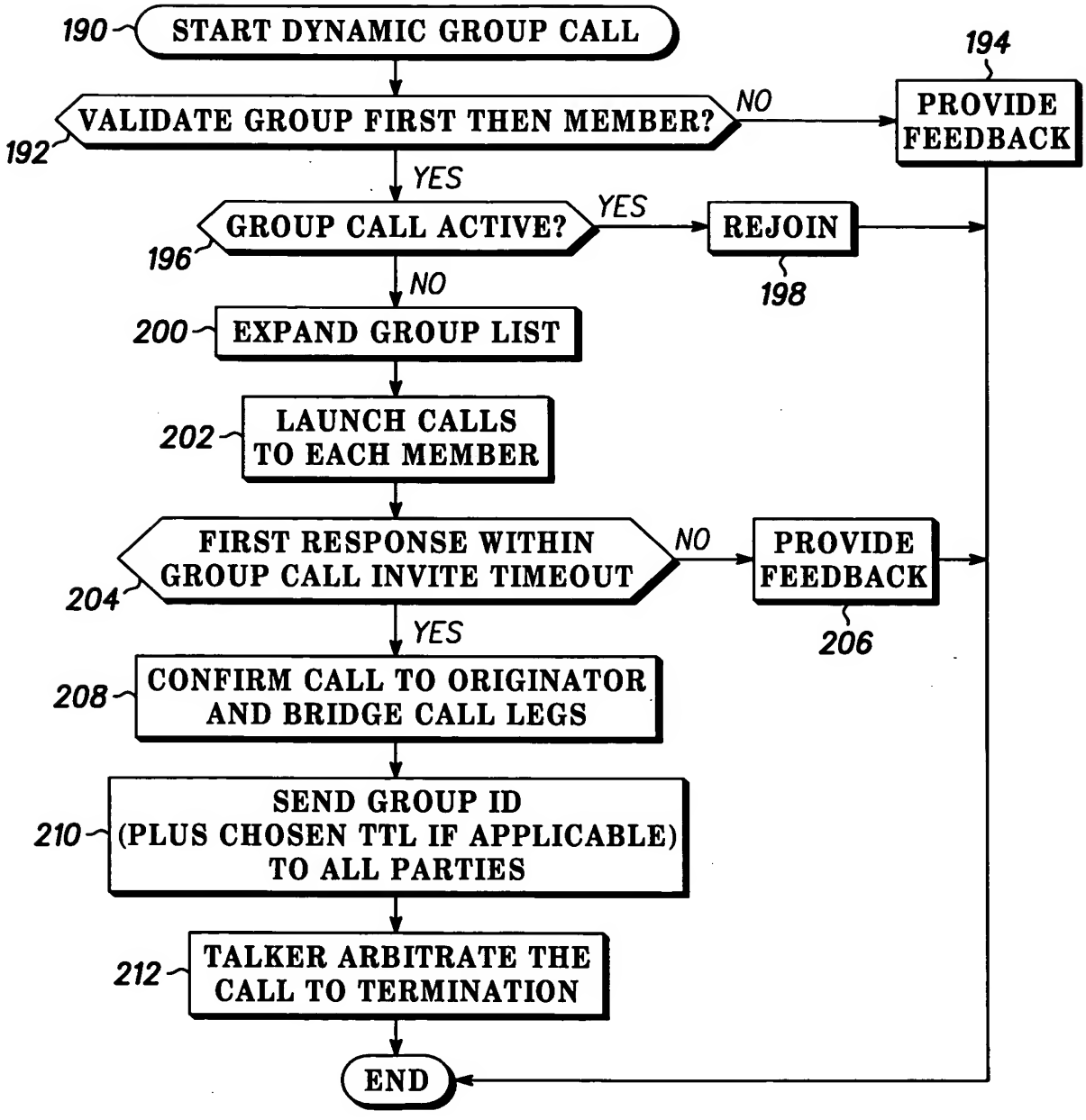
190
START DYNAMIC GROUP CALL
192
VALIDATE GROUP FIRST THEN MEMBER?
NO
194
PROVIDE FEEDBACK
YES
196
GROUP CALL ACTIVE?
YES
REJOIN
198
NO
200
EXPAND GROUP LIST
202
LAUNCH CALLS TO EACH MEMBER
204
FIRST RESPONSE WITHIN GROUP CALL INVITE TIMEOUT
NO
PROVIDE FEEDBACK
206
YES
208
CONFIRM CALL TO ORIGINATOR AND BRIDGE CALL LEGS
210
SEND GROUP ID (PLUS CHOSEN TTL IF APPLICABLE) TO ALL PARTIES
212
TALKER ARBITRATE THE CALL TO TERMINATION
END

FIG. 6

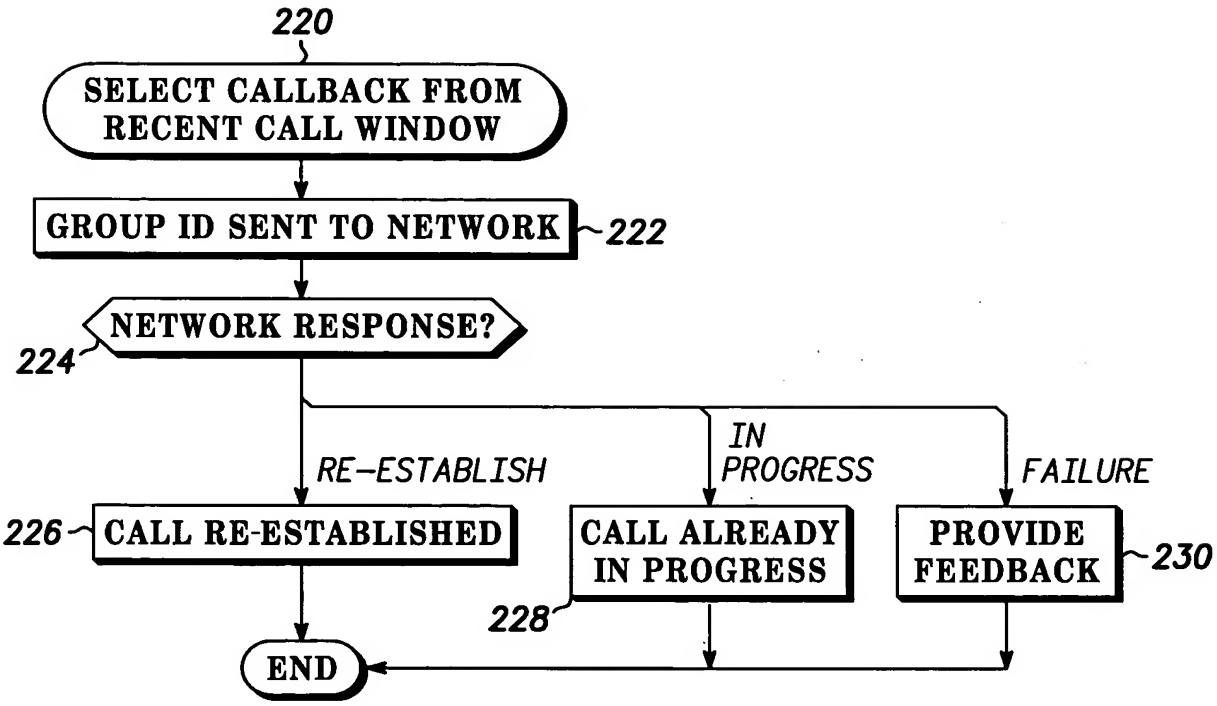
220
SELECT CALLBACK FROM RECENT CALL WINDOW
GROUP ID SENT TO NETWORK
222
NETWORK RESPONSE?
224
RE-ESTABLISH
IN PROGRESS
FAILURE
226
CALL RE-ESTABLISHED
CALL ALREADY IN PROGRESS
228
PROVIDE FEEDBACK
230
END

FIG. 7